## FRIEDMAN & BRUYA, INC.

### **ENVIRONMENTAL CHEMISTS**

Date of Report: September 10, 1993
Date Received: September 7, 1993
Project: 7238, Hydraulic Sludge, PO# M30743
Date Samples Extracted: September 7, 1993
Date Extracts Analyzed: September 8, 1993

# RESULTS FROM THE ANALYSIS OF THE SLUDGE SAMPLE FOR TCLP METALS IN ACCORDANCE WITH 40 CFR PART 261

Results Reported as mg/L (ppm)

Sample#	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M30743	<0.5	19	160	0.9
Regulatory Level	5.0			
Quality Assurance				
Blank	<0.5	<0.5	<0.5	<0.5
M30743 (Duplicate)	<0.5	2.0	160	0.8
M30743 (Matrix Spike) % Recovery	105%	102%	ai	103%
M30743 (Matrix Spike Duplicate) % Recovery	106%	102%	ai	102%
Spike Blank % Recovery	110%	106%	111%	115%
Spike Level	50	50	100	50

ai The amount spiked was insufficient to give meaningful recovery data.

FRIEDMAN & BRUYA, INC. 3008-B 16th Avenue West Seattle, WA 98119



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9.7.93	
10	50

Send Report ToA ASKAN  Company  Address P.O. 30x 3	Coppen won	ks	_ Contact	Sonell	Thompson		
City, State, Zip Seattle Phone # (206) 623	4817-	7	Dute	9-2-53			
SITE NO.	PROJECT NAME				ASE ORDER #		
7278		de		MZC	M 30743		
SAMPLERS (signature)	- T			PROJEC	ET LOCATION		
S. S. S.				3200	6th Ave	5	
REMARKS					E DISPOSAL INFORM.		
				SF	Dispose after 30 days Return Samples Call for Instructions		
SAMPLE #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested		
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Received by:							

# FRIEDMAN & BRUYA, INC.

### **ENVIRONMENTAL CHEMISTS**

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

September 10, 1993

### **DUPLICATE COPY**

### **INVOICE # 93ACU0910-1**

Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 7238, Hydraulic Sludge, PO# M30743: Results of testing requested by Gerald Thompson, Project Leader and submitted on September 7, 1993.

1 sludge sample analyzed for	TCLP Metals	
@ \$140 per sample		\$ 140.00
Amount Due		\$ 140.00

### FRIEDMAN & BRUYA, INC.

#### **ENVIRONMENTAL CHEMISTS**

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

September 10, 1993

Gerald Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on September 7, 1993 from Project 7238, Hydraulic Sludge, PO# M30743.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Andrew John Friedman

Chemist

AJF/sao

**Enclosures**